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A NEW SPECIES OF THE GENUS *EARINUS* WESMAEL FROM CHINA (HYMENOPTERA: BRACONIDAE)*

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Abstract The genus *Earinus* Wesmael of the subfamily Agathidinae is recorded for the first time from the mainland of China. One species, *Earinus wuyiensis* Chen *et* Yang, is new to science. A key to Chinese species of this genus is also given. Type specimen is deposited in the Beneficial Insects Lab., Department of Plant Protection, Fujian Agricultural University, Fuzhou, Fujian Province.

Key words Hymenoptera, Braconidae, Agathidinae, *Earinus*, new species, China

Genus *Earinus* Wesmael

Earinus Wesmael. 1837. Nouv. Mem. Acad. Brux. 10: 8. Type species: *Microdus nitidulus* Nees von Esenbeck. Designated by Muesebeck *et* Walkey, 1951.

Diatmetus Foerster. 1862. Verh. naturh. Ver. preuss. Rhein. 19: 246. Type species: *Microdus gloriator* Nees von Esenbeck. Monobasic & original designation.

Genus *Earinus* Wesmael was established by Wesmael in 1837. It is recorded for the first time from the mainland of China in the present paper. The taxonomic history of *Earinus* has been somewhat controversial. Marshall (1885) placed *Earinus* under the subfamily Agathidides in his division Areolarii[1]. Thomson (1895) considered this genus as a subgenus of *Agathis* Latreille[2]. Ashmead (1900) placed it under the tribe Microdini of Agathidinae[3]. Shenefelt (1970) did not recognize the tribes and therefore treated *Earinus* under Agathidinae[4].

Nineteen species of *Earinus* have so far been reported: thirteen from the Palaearctic Region, two each from the Neotropical and Nearctic Regions, one species, *fuscipus*, mentioned by Shenefelt as "*n falsome*" without any distributional data and one species, *burmensis*, from Burma[4~9].

Earinus approaches *Agathis* Latreille in the shape of face, non-areolated propodeum, circular propodael sipiracles and simple claws of fore and middle legs, but is distinct by the absence of notauli and the mesopleural furrow. The first cubital and the first discoidal cells are separated in *Earinus*, thus distinguishing it from all other genera of Agathidinae.

Key to Chinese species of genus *Earinus* Wesmael

1. Legs yellow; malar space 0.37~0.40 times eye height 2

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Legs black; malar space 0.51～0.56 times eye height ························ *Earinus bicolor* Chou *et* Sharkey[6]

2. metasoma yellowish red; scutellar furrow with 3 longitudinal carinae; outer side of middle tibia with 4～5 spines ·· *Earinus burmensis* Gupta *et* Bhat [5,6]

metasoma dark brown; scutellar furrow with 5 longitudinal carinae; outer side of middle tibia with 8 spines ······ ·· *Earinus wuyiensis* Chen *et* Yang, sp. nov.

1　***Earinus wuyiensis* Chen *et* Yang, sp. nov.** (Figs. 1～5)

Male: Head 2.0 times as wide as long. Vertex sparsely minutely punctate. Frons smooth; frontal depression shallow. Antenna 39-segmented. Face weakly punctate with short setae, 1.5 times as wide as eye height and 0.60 times as wide as head; length of malar space 0.40 times eye height.

Mesosoma 1.6 times as long as high. Pronotum sparsely minutely punctate on anterior and posterior margins, and smooth medially; pronotal trough with transverse carina, posterior margin of pronotum weakly carinate. Mesoscutum weakly concave posteriorly, sparsely minutely punctate; notauli absent; scutellar furrow with 5 longitudinal carinae; scutellum without lateral or apical carinae. Mesopleuron sparsely minutely punctate on anterior, dorsal and posterior margins, rest of mesopleuron smooth; mesopleural furrow absent. Metapleuron sparsely minutely punctate. Propodeum with two irregular median longitudinal carinae. Propodeal pseudosternite reduced, lacking transverse carina. Hind coxal cavity open. Fore wing 3.8 times as long as wide; stigma 3.1 times as long as wide. Outer side of middle tibial with 8 spines; inner middle tibial spur 0.35 times as long as basitarsomere; hind coxa sparsely minutely punctate; hind femur 4.0 times longer than wide; inner hind tibial spur 0.42 times as long as basitarsomere.

Fig.1～5　*Earinus wuyiensis* Chen *et* Yang, sp. nov. ♂♂

1. frontal view of head; 2. dorsal view of head; 3. forewing; 4. dorsal view of propodeum; 5. dorsal view of first metasomal tergum

Metasoma smooth. First tergum 2.3 times as long as wide apically, with dorso-lateral cari-

nae, converging but not meeting medially; first 3 terga each with rhomboidal raised area.

Color: Black. Palpi and antenna dark brown. Wing hyaline, stigma and veins brown. Legs yellow, apices of hind tibia and basitarsus dark brown. Metasoma dark brown.

Measurements: Body 6.2 mm, antenna 6.0 mm, fore wing 5.8 mm.

Female: Unknown.

Holotype: ♂, Huanggangshan, Mt. Wuyi, Fujian, 1992-Ⅳ-23, Yang Jianquan.

This new species is closely related to *Earinus burmensis* Gupta *et* Bhat[5,6], but it is distinguished easily from the latter in the following feature: Palpi and metasoma dark brown, scutellar furrow with 5 longitudinal carinae, outer side of middle tibia with 8 spines.

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中国全脉茧蜂属一新种
（膜翅目：茧蜂科）

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摘要　记述了窄径茧蜂亚科 Agathidinae 的中国大陆一新记录属——全脉茧蜂属 *Earinus* Wesmael 及该属已知分布于福建省武夷山的一新种——武夷全脉茧蜂 *Earinus wuyiensis* Chen *et* Yang，并建立了该属中国已知 3 种的分种检索表。新种模式标本保存于福建农业大学植物保护系益虫研究室。

武夷全脉茧蜂 *Earinus wuyiensis* Chen *et* Yang，新种（图 1～5）

本新种与缅甸全脉茧蜂 *Earinus burmensis* Baht *et* Gupta 近似，但可用本新种的额须暗褐色，腹部暗褐色，中胸小盾片前凹具 5 条纵脊，中足胫节外侧有 8 根刺等特征予以区别。

正模：♂，福建武夷山黄岗山，1992-IX-23，杨建全采。

关键词　膜翅目，茧蜂科，窄径茧蜂亚科，全脉茧蜂属，新种，中国